DIAMOND-WASHING IN BRAZLL, AND diamond-cuttive in amsterday

PThe diamond poseesses $x$ much higher and
more uniform volue than any other artiele of more uniform volug than any other artiele of ed the demand so to make any enhange in the
priee of eut stones. In 1843 , when the mines priee of eut stones. In 1843, when the minee
at Sineora, in Bahis, were diseovered, fears were entertained that a permanent depreciation would
talke place ; but the very high priese which required to be paid for all the neceesaries of liff. reduced the number of diamond-seekers, and the fall was searreely folt in Earope.
The traet of country in
The traet of eountry in which the Brazilian
diamonds are found, extends from the village of diamonds are found, extends from the village of
liambe. in Minar-ijeraes, to Sinerra. on the river Paraguase of Bahis, between 20 is is and 13
of south latitude. They are chiefly obtained river Paraguaes or Bahia, between 20 is and
of south latitude. They are ehiefly obbained
from the numerous streans whieh form the sourfrom the numerous streans whieh form the sour-
ees of the rivers Doee, A rassanky, Jequitinh houha,
and the $t$ th : auriforeses regions of Aust a a is, 1 to those of Smuth America. contain diamunde; two from the river Maequarrie having been sent to the exhi-
bition whieb was lately Diamends wass lately held at Paris.
Dismunds econsist of pure earbon, sand are often
in the formo of eight or iwelve-sided erystale, the latter being the tess commonen figure. Of their formatuon in the great laboratory of nature, nothing is known: but they are supposed to exiec
originally in the mountains, whenee they are origitiaally in the mountains, whenee they are
earried down into the valleys by the torrente Whieh flow during the rainy seasens. The degradation of the raeks must be acenmplished by the powerful ageney of the tropie floode ; and the
precious gems whieh arn thus excavacated, muat bo deposited in the eedimentary debris whieh forms the beds of the rivers before the seareh of
man becomes succersful. The parent atone or mann beeomes suiceesefol. The parent otone or
matrix is a miea shist, called Ite Columite,
whose fragments mized with eapt furm the casWhose fragments mixed with earth furm the cas-
ealho, whech io dug from the rivers, and in which the diamond-serker finds his tressure. In South Ameries, the alluvium of the rivers, not only
conotains diamonds, but gold and platina, though
both these metals are generally both these metals are generally so finely powder-
ed as almoet to defy eolleciion by the ordinary procese of washiag. The river Jequitiohonha is
one of the riehest in Brazil, and the works on its
banks have been banks have been carried on for a long period. April to the middle of Oetober, has redeeed the depith of water, the rivur is lurned aside into a
eanal previously formed by making an embankment, with bags of sasd, over the original
ehannel. The water whieh remains is then pumpent out, the mod dag to a depth varying froun six
to twenty feet, and removed to the p'ace wher the washing is afterwards to be performed. eollectiog the easealhn is earried on unremittingly, $s 0$ as to have a euffir ient quantity to necupy the
negroes during rainy months. The mud whieh is ratsed from somen of the rivers. containa dimeonds
so uniformly difused, that a pretty correet apso uniformly diflused, that a pretty correet ap-
proximation ean be nade to the number of sarats proximation ean be nasde to the number of esrate
Whieh a given quantity will prodecee. It some times happens, however, that arooves are found
containing large quantities of diamonds and gold. When ths rainy seaseon puts a stop to the raisinge to the washing:shed, near which the result of the dry season's labours bas been heaped up. The
troughe, called easoes, are arranged side by side.
and an overseer oecupies an elevated seat in front, oo st to observe every movement of the working of ne er is introdued, to cearry away the earthy part of the cascallo. Having placed half a hunnegro le le in the streasia, and keeps up a constana
motion till the mud has been washed away and the water rans perfeelly elear. The gravel ie then taken out by the hand, and earefolily exam-
ined for diamondo. When oas if found, the ined for diamoendo. When oese is found, the inder, and places it in who reecives it from the incer, and piaces it in a bowi with water, whieh
is hope in the midet of the shed. The day's
work being finished, all the diamonds which have work being iniohed, all the diamonds which have
been found are delivered to the oupenintendent, mondenters theire weight in a hook. Large diaated that, on an iserrege, out of 10,000 , heare arr earats, while there are perhaps 8000, enen. or
which $i 6$
loest that one. At the works en iver dequitinhonha, there have rarely been found
more than two or three stones weighing from seventeen to twenty earats each in the washing
of a jear ; in the whole diamond-mines of Brazi
not mose then thinty earats. In 1851 , antone of two yoaras,
found at the


with a wreath of formere, and earried in proeer-
dion to the alministrator, who gives ith


 leagted by ty the offireere,that tit minghten enitite the poo

 trise in lite dieappaiuturent.' A atuna of eight siit of elothes, a hat, and a handsome kuife. For
emailler, but valuable stomes, propurtienate ore




The lathour expended in collectiog thar emal
 digurg and washing; yet to briogg then togethee
much oweat has nowed, white the steming ne Thee whip the elay ander a burniug tropieal sun. The wilip has many a time rovsed the faggivg gravel in the washing-troogh. Not a fow have periehed, and been laid by their comrades under
Phe dark green tree, Iroum whose branehes hane
 Joiliogs whieh have been made in llim fiom the cosat of Afries, in thinte of the effirns of thie country to prevent the unholy troflic. The homanity of some, however, aud the selr-interes
of otheto, have led them tof rome ruteo wice
 aot ouly prove an ineentive to eirefofol seareh, bur imparis apiriti to the thbour whioh ment reader in the overseer, and numbers of the human framily The pown to the level of beeste of burthen The proeese of eutiong bringo eut the inheren
beauty of the diamond, and greaty eanhances it value. EEven affor the the tone hhes been cut, ina wanting. None , Nehatage of of position white the

 re-cut, it beesme one of the ehoieest brillisent For
a exelustively monopolised that branech of ind oastry. At a time when they were perseeated in all the
other nations of Euripe, the riening trade of Amsterdam encouraged them to mills were eereeted under the epecial protectio Which the states of Holland aff rided to eapita
and enterprise. It io ealceulated, that not feue and enterppise. It ie ealeulated, that not fiewer
than It,000 out of the 28,000
Jews who
wive Amsterdana depend directily and indireetly on the diammend-trade.
The Diamond-enterg' Cempany, under the
direaiion of Mr. Ponoe, have ithree faetories, all wrked by sicean. The nonited eapacity of the enainees io nineyy-five horsepowet, driving milt, and empley troo other diamond-entulag faetories in Amote
 of oix horse-poewer, driving fority nill, and and em.
 driving aventy-1wo millt, and giving work to 150 Company, and that of Mr. Pries, the mille are let. those who are not shareholdera, at a fixed rate for the hour or day. Mr. Coster's mille, on the other hand, are driven on hie owna aecount; a add
to him have been intrusted the wo moas valuble gems thave theen beonen cust in
Haring obtarined an introduction, the viitior
int totis mill io treated with the greateost tatton-
tion.
Ho no pooner enters
 various eteps in the procese. The eepts of the Torkmen aroo arrang ed elong the side- willole of
 astremity on the beneb, and the other on the revolving p plane. The diamond-polieher stoppe trangtion, and, linting the lover, shews the the



 | havi |
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## lal




The etone having been fixed in the amalgam, thieh in then hardened by eooling it in water,
the workman ahows the visitor a little box of Tine pourder, or which a minute quantity io put,
ith a fow drops of oil, on the mill. This the diamond-doset with whieh alone the polishing ean be aecomplished, and it posessen a
value of about 1.6 aterling the ounce. It it

 artist, who, if ift is a valuable stone, draws oul
plan by whieh it may be eut with the smallplan by whieh it may be eut with the emath
estose of weight. Leaving the mills, we
seend to thit department, and find that the workman does ererything, without the aid of
machinery. Having takea two small wooden workmen does every thing without he aid or
manhiniery. Having taken two small wooden
levers or handies, ghe seleets two diamonde, and levers or handles, he selects two diamonde, and
 ginet the other over a 1 lit
aine the
Thewder na it falls.
eives the powder as it falls.
purest water, as seen at the Prilliant of the rase eut in the factory of Mr. Coster; and the
ableat artist of the establishment, Mir. Voorangor, had the hcnsur of suecesfally re-ent
ting the Kohe-i-noor in the workshop of the arown-jeveller at London. asigned ' pour lees lapidaires diamanataires de Eaigned pourl les lapidaires diamanatuires de The Kob.-i-noor, when prosed.
The Kob-j-noor, when prosented to Her Ma-
 cutting had bbeon eo unaskilifulty eoveentod, that ite appenancese eacreely surpased that of eut
eryatal. In the sides were grooves whieh had
 former getting, and near tho top was a smal aplit. To remove these withoui greatly reduiie, but ing. Coster was of opinion that these
ight be overeome in the hande of a skifrul ight be overcome in the hande of a ekilfal
workman. Soveral models were presented to Her Majoesty, out of whieh she selected the form
it now heare, that of a regular brilliant. To it now hears, that of a regular brilliant. To enine of four horse-power, was erected to to
rive the diamond-mills. The eutting wa om menced on the 1 tinh July, 1852 , and finished
in thirty eight working. anch. Tn removink gone of of the flawe the , he epeed
f the revolving plane required to be inereased
 the objeet was attained slowly. The velocity with whieh the mill rotates, and pressure on
the lever which reats the diamond upon the plane, alone give power to the workmap. That
prosare maveither be pplied by the hand or

 pounds.
The process redued the Kohi-i-noor from the average lose, which ie iestimated at one hald
or more. The Star of the South, when uncut, righed 254 carata, and is now 125 , the redue diamondo were over before eut with oo litutle
diminuation of their weight. The Regent,

 Progress mande in the ant of diamondeutting. been very much shortened. The Regent oeeu-
pied two yours; while the Kob-i-woer, whieh

 South, twelve earats amaller than the Regent,
waen cut in in three moanthe. Alorever, no one can look at the eabinet of modele in Mr. Cos-
 orer any of the other gome whieh belong to
the soovereigos of Rurope.
The manerer in which the value of eut dia
 importance that the weiggt should be redueed
as little as possible. A stone of one earet $i$ io as little as posible. AA stone of one earat ie weight if worth L.35;; the role being, the


 pecoliar billianoy of the diamond io brought






The rovolution in Franee at the end of the lant eentury, nearly ruined at the jeme of the Parin, and for a timo gave a eheck to improve-
ment. Under the imperial government of Na poleon I., some progress was again made, but the art only began to flowith anter the retiona-
tion. At îret, they morked ath tion. At Ifrst, thoy worked with stones of the
seeond elass, suech as to eecond elass, sueh as topazee, amothesta, and
aigue-marines, with which trinkets of men
 wardes, it was found that by imitating flowers the number of preeious stones, in proportion
to the size of the jewel, could be pedte to the size of the jemel, could be revaced with
out injuring the effeot; while diamonde of the purity, suen the etfiet ; whilile diamonde of leem
 in ifiver, and rubies in goide, so as to impar an apparent inerease of size to the one, and
splendour of colour to the other, beeme more gieneral; and the moot beauntifal deeigns hare been wrought out with the greatest neatneau and tasto. At no poriod in the history of the
world have so fine epeeimens of the jowoller's


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